

The invention provides isolated nucleic acids that encode human GRBP2, and fragments thereof, vectors for propagating and expressing human GRBP2 nucleic acids, host cells comprising the nucleic acids and vectors of the present invention, proteins, protein fragments, and protein fusions of the human GRBP2, and antibodies thereto. The invention further provides transgenic cells and non-human organisms comprising human GRBP2 nucleic acids, and transgenic cells and non-human organisms with targeted disruption of the endogenous orthologue of the human GRBP2 gene. The invention further provides pharmaceutical formulations of the nucleic acids, proteins, and antibodies of the present invention, and diagnostic, investigational, and therapeutic methods based on the human GRBP2 nucleic acids, proteins, and antibodies of the present invention.